

## ***4<sup>th</sup> National Conference on Safety Engineering & HSE Management***

***6-8 March 2012***

***Sharif University of Technology***

### **Introduction:**

Due to the overwhelming response of HSE experts from academia and the industries to the previous "Safety Engineering and HSE Management System" on March 2006, 2008 and 2010, the center for Process Design, Safety and Loss Prevention (CPSL) at the Sharif University of Technology felt obliged to hold a fourth Conference on March 2012.

The pivotal role of safety management system in industries in protection of the work force, the work environment, the capital and security financial profit by preventing accidents, loss of lives, equipment, production and saving the corporate image is well understood.

Due to the diversity of industrial activities in Iran such as in the oil, gas, and petrochemical sectors, mining, heavy industries, defense, automotive, food and other industries, there are many grounds to explore in the field of safety and HSE management system.

### **Objectives:**

1. To discuss the fundamental elements of safety management and related topics within the frame work of HSE management system
2. Facilitation of direct cooperation between the HSE experts in academia and professionals in the industry
3. Gathering national and international HSE experts to discuss and examine the newest Best Available Technologies (BAT) and best industrial safety practices
4. Exploring different HSE related R&D projects in the industry
5. Encouraging academic and industrial centers to develop robust safety and HSE management system research programs
6. Exploring HSE management system's potential on protection of the local and global environment and achieving the Sustainable Development Objectives of industries and societies

### **Conference Topics:**

1. Safety & Risk Management
  - Analysis of previous industrial accidents to promote safety and HSE education
  - New methodologies in evaluation and classification of hazards

- Methodologies for intrinsically safe design of process industries
- Risk identification, risk assessment, and risk management
- Commercial software utilization in safety engineering applications
- Accident consequence analysis in industrial plants
- HSE and safety in contracting environment
- Design and implementation of Emergency Response
- Safety and insurance
- New safety instruments and tools
- Crisis management

## 2. Safety and Environment

- New industrial design techniques for minimization of negative environmental impacts
- Industrial activity impacts on the natural and socio-economic environments
- Integration methodologies of safety and environmental protection
- Environmental impact assessment for development of existing industries
- Roles and responsibilities of GOs, legislatures, and NGOs in protecting the environment
- HSE management system's role in protection of the environment and sustainable development
- Economic assessment of compliance with environmental requirements in industrial activities

## 3. Safety and Occupational Health

- Economic assessment of compliance with occupational health requirements in industries
- A review of the state of occupational health in the Iranian industries
- Occupational health and hazardous activities in the industries
- Accidents and the employee's mental health, a cause and effect perspective
- Methods of occupational health assessment in the workplace

## 4. HSE Management System

- The pillars of HSE management system
- HSE management system, a look to the future
- HSE requirements and regulations in a contracting environment
- Commercial software for the HSE management system
- HSE management system and Sustainable Development

## 5. Safety Culture

- Culture, impact analysis of its components on safety
- Human error factor in accidents

- Methods of analysis of corporate and national cultures and their impacts on HSE-MS

### **Technical Workshops:**

During the Conference, technical workshops on Safety Engineering and HSE Management System will be held.

More information can be obtained from the Conference secretariat office or can be seen at the Conference website:

[www.cpsl.ir](http://www.cpsl.ir)

### **Exhibition:**

As in the previous three Conferences on 2006, 2008 and 2010 a side-exhibition of new technologies, developments, and services in the field of safety and HSE will be held. Interested individuals or organizations can submit a written request to the Conference secretariat office.

A Reference Book of the providers of HSE-MS services or suppliers of HSE equipment and technologies will be published at the time of Conference and will be distributed among the Conference participants.

### **Submission of Manuscripts:**

Authors of accepted contributions will be invited to submit a full text version of their paper, typed in MS-Word, alongside electrical copy to the Conference secretariat. Accepted papers will be published in the Conference proceedings and CD and will be distributed among the Conference participants. To learn more details about the procedure, please refer to the Conference website at: [www.cpsl.ir](http://www.cpsl.ir)

### **The Deadlines are the Following:**

Submissions of full texts: November 15<sup>th</sup> / 2011

Acceptance: January 20<sup>th</sup> / 2012

Camera – Ready: January 30<sup>th</sup> / 2012

### **Registration for the Conference:**

To learn about registration details and printing the registration form please! refer to the Conference website.

## Conference Executive Organization and Sponsors:

The Conference executive is the Center for Process Design, Safety and Loss Prevention (CPSL), Sharif University of Technology and the Iranian Association of Chemical Engineering (IACHe).

### Sponsors at previous Conferences

			
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